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Fig. 1 - *Ancylolema palpella* Turkey Van Pr., Kampüs, 1700m, 21 September 2008 photo M. Kemal (Cesa)



Fig. 2 - *Catoptria incertella* Turkey Trabzon Pr., Maçka Altındere 800m 24 6 2008 M Kemal leg. & photo (Cesa)



Fig. 3 - *Pyrausta obfuscata* Turkey Bitlis Pr., Tatvan Reşadiye 1670m 06 07 2006 photo M Kemal (Cesa)



Fig. 4 - *Pyrausta despicata* Turkey Bitlis Pr., Tatvan Tokaşı S 1750m 6 7 2006 photo M Kemal (Cesa)



Fig. 5- *Synaphe moldavica* Turkey Malatya Pr., Akçadağ Sultansuyu 870m, 27 5 2007 photo M Kemal (Cesa)



Fig. 6 - *Trepteryx pertusalis* Turkey Adana Pr., Hanyeri W 1885m 6 6 2006 photo M Kemal (Cesa)



Fig. 7 - *Panstegia limbopunctalis* Turkey Van Pr., Kurubaş 2250m 4 7 2009 photo M Kemal (Cesa)

Notes on the *Insecta* in the Collection of the Cesa *Lepidoptera* of Turkey-III ¹

Ahmet Ömer Koçak Muhabbet Kemal

Abstract: Notes on the *Insecta* in the Collection of the Cesa *Lepidoptera* of Turkey-III. *Cesa News* 68: 1-17, 21 figs.

The present paper deals with some results on the faunistical activities of the Cesa. The authors list some of the lepidopteran specimens of the families *Pyralidae* and *Zygaenidae* from 17 provinces of Turkey. The collecting information is composed of the number of the collected specimens, code of Turkish provinces, name of districts, localities with altitudes, date of collecting, names of the collectors or observers, and short notes of the collecting, the habitat or feeding biology of the specimens.

Key words: *Lepidoptera*, *Pyralidae*, *Zygaenidae*, fauna, Turkey.

In this part of the faunistical papers, the authors list some of the lepidopteran specimens of two families, *Pyralidae* and *Zygaenidae* from 17 provinces of Turkey of the Cesa Collection (see also Appendix, page 7). Some little known species of the family *Pyralidae* are illustrated from nature and the material of the collection.

The collecting information is composed of the number of the collected specimens, code of Turkish provinces, name of districts, localities with altitudes, date of collecting, names of the collectors or observers, and short notes of the collecting, the habitat or feeding biology of the specimens. All the specimens identified by the authors. The list of the species given below is an original extract of the database files of the collection prepared and maintained by the authors.

Pyralidae

Aeglotis argentalis 1♂ **65:** Çatak Dalbastı 3km S 1300m 19 8 2003 (**Fig.8**).

Amaurophanes stigmatialis 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg. - 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg.

Ancylolomia palpella **65:** YYU Kampüs, 1700m, 21 9 2008 photo M Kemal - 2♂ 7♀ **65:** Çatak: Çatak 3km NNE, 1500m, 05 10 2001. A.Koçak & M.Kemal leg. (**Figs. 1,9**)

Ancylosis cinnamomella 2♂ **65:** Çatak: Çatak 35km N, Darboğaz 2100m, 07 06 2004. A.Koçak & M.Kemal leg.

Aporodes nepticulalis 4♂♀ **65:** Van: Zeve, Kampüs, 1700m. 04 06 2001, M.Kemal leg. - 1♂ 1♀ **65:** Van: Zeve, Kampüs, 1700m. 05 06 2001, M.Kemal leg.

¹ See previous parts: **Koçak,A.Ö. & M.Kemal**, 2011, Notes on the *Insecta* in the Collection of the Cesa *Lepidoptera* of Turkey-I. *Cesa News* 66: 1-37. <http://www.archive.org/details/CentreForEntomologicalStudiesAnkaraCesaNewsNr.66> - **Koçak,A.Ö. & M.Kemal**, 2011, Notes on the *Insecta* in the Collection of the Cesa *Lepidoptera* of Turkey-II. *Cesa News* 67: 1-26. <http://www.archive.org/details/CentreForEntomologicalStudiesAnkaraCesaNewsNr.67>

Bradyrrhoa gilveolella 1♂ **33**: Tarsus: Tarsus 40km N, 0600m, 12 06 2005, A.Koçak & M.Kemal leg.

Catoptria incertella **61**: Maçka, Altındere 800m 24 06 2008 photo M Kemal (**Fig.2**).

Chrysocrambus linetellus 1♂ **65**: Çatak: Çatak 2km NNE, 1650m, 09 06 2001. A.Koçak & M.Kemal leg.
- 1♂ 1♀ **65**: Çatak: Çatak 35km N, Darboğaz 2100m, 07 06 2004. A.Koçak & M.Kemal leg.

Cynaeda dentalis 1♀ **65**: Van: Zeve, Kampüs, 1700m. 05 06 2001, M.Kemal leg.

Dolicarthia bruguieralis 1♂ **65**: Çatak: Çatak 3km NNE, 1500m, 05 10 2001. A.Koçak & M.Kemal leg.

Endotricha flammealis 1♂ **06**: Bala: Üçem köyü, 1200m, 18 07 2004, M.Kemal & A.Koçak leg.
Tragacanthic steppe on hill slopes. - 18♂♀ **06**: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg.

Ephelis cruentalis 1♀ **06**: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 1♂ **13**: Ahlat: Kuş Cenneti, 1750m, 26 07 2005, H.Özkoç & L.Kayci leg. - 3♂♀ **13**: Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 19 07 2006, M.Kemal & A.Koçak leg. *Habitat: Betula- Populus- Astragalus Comm.* - 6♂ **44**: Darend: Darend W, 1100m, 17 06 2006, M.Kemal & A.Koçak leg. - 1♂ (ex larva) **49**: Malazgirt: Karıncalı, 1700m. 10 06 2007, O.Karabacak leg. - 1♀ **56**: Kurtalan Ağaçlıpınar 1000m 11 6 2002 M Kemal & A Koçak leg. (**Fig.10**) - 1♂ **58**: Gürün: Gürün, 1300m 27 06 2004, M.Kemal & A.Koçak leg. - 1♂ **65**: Gevaş: Malumkişiler geçidi, 2700m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe*. 3♂♀ **65**: Gevaş: 8km S. Gevaş, 1950m, 03 08 2005, H.Özkoç & L.Kayci leg. *Habitat: Mountain Steppe*. - 1♂ **65**: Gevaş: Kayalar köyü, 1800m, 16 06 2006, H.Özkoç & L.Kayci leg. - 4♂♀ **65**: Gevaş: Kayalar, 1800m, 20 06 2006, H.Özkoç & L.Kayci leg. - 1♂ **65**: Gevaş: 5km S. Gevaş, 1815m, 28 06 2006, H.Özkoç & L.Kayci leg. - 1♂ **65**: Gevaş: 6km S. Gevaş, 1950m, 17 06 2006, H.Özkoç & L.Kayci leg. *Habitat: Mountain Steppe*. - 1♂ **65**: Van: Kurubaş geçidi, 2100m. 18 07 2001, M.Kemal & A.Koçak leg. *Butterflies inhabits in tragacanthic mountain steppe*. - 1♂ **65**: Çatak: Çatak 2km NNE, 1650m, 09 06 2001. A.Koçak & M.Kemal leg.

Ephestia welseriella 1♀ **65**: Çatak: Çatak 3km NNE, 1500m, 21 06 2004. A.Koçak & M.Kemal leg.

Epiepischnia pseudolydella 2♀ **65**: Çatak: Çatak 3km NNE, 1500m, 21 06 2004. A.Koçak & M.Kemal leg.

Etiella zinckenella 1♂ **06**: Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. - 3♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Eurrhysis cacuminalis 4♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg.

Eurrhysis pollinalis 1♂ **06**: Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg.

Euzopherodes lutisignella liturosella 1♀ **65**: Çatak: Dalbastı 3km S, 1300m, 08 06 2004. A Koçak leg.

Evergestis desertalis 1♂ **58**: Gürün: Gürün, 1300m 27 06 2004, M.Kemal & A.Koçak leg.

Evergestis frumentalis 1♂ **06**: Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. - 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 3♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg. - (in VC) **06**: Çubuk: Kuruçay, 1300m. 16 05 1999, A.Koçak & M.Kemal obs. - 1♂ **40**: Kaman: Kırşehir-Kaman kavşağı, 1190m, 07 06 2006, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Gevaş/Çatak sınırı, 2000m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 2km NNE, 1650m, 09 06 2001. A.Koçak & M.Kemal leg.

Evergestis umbrosalis 1♂ **13**: Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 09 06 2007, M.Kemal, A.Koçak leg. (**Fig.11**) - 2♂ **13**: Tatvan: Nemrut Krateri, İlköl üstü, 2300m, 09 06 2007, M.Kemal, A.Koçak leg.

Hypsopygia costalis 2♂ 1♀ **65**: Çatak: Çatak 3km NNE, 1500m, 05 10 2001. A.Koçak & M.Kemal leg. (**Fig.12**) - 1♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 3km NNE, 1500m, 23 05 2001. A.Koçak & M.Kemal leg.

Loxostege mucosalis 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 1♂ **65:** Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Narlı, Konalga meşeliği, 1800m, 26 06 2001. A.Koçak & M.Kemal leg.

Margaritia sticticalis 1♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg.

Mecyna lutulentalis 1♀ **65:** Çatak: Çatak 3km NNE, 1500m. 09 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Çatak 3km NNE, 1500m, 09 06 2001. A.Koçak & M.Kemal leg.

Mecyna trinalis 1♂ **44:** Malatya: Kürecik, Karahan geçidi, 1900m. 09 07 2001, A.Koçak & M.Kemal leg. - 1♂ **65:** Çatak: Çatak 2km NNE, 1650m, 09 06 2001. A.Koçak & M.Kemal leg.

Mesocrambus carectellus 1♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg.

Metaxmeste sericatalis 1♀ **13:** Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♀ **13:** Tatvan: Nemrut Krateri, Ilıkgöl üstü, 2300m, 09 06 2007, M.Kemal, A.Koçak leg. (**figs. 13,14**)

Myelois circumdatella 1♂ **65:** Çatak: Çatak 3km NNE, 1500m, 21 06 2004. A.Koçak & M.Kemal leg. - 1♂ **65:** Çatak: Çatak 3km NNE, 1500m, 23 05 2001. A.Koçak & M.Kemal leg. - 4♀ **65:** Çatak: Çatak 2km NNE, 1650m, 09 06 2001. A.Koçak & M.Kemal leg. - 1♂ 2♀ **65:** Çatak: Narlı, Konalga meşeliği, 1800m, 26 06 2001. A.Koçak & M.Kemal leg.

Myelois pumicosa 1♂ 3♀ **65:** Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg. - 3♀ **65:** Çatak: Narlı, Konalga meşeliği, 1800m, 26 06 2001. A.Koçak & M.Kemal leg.

Noctuelia vespertalis 1♂ **13:** Bitlis Pr., Tatvan 2km SE 1700m, 15 6 2007 M Kemal & A Koçak leg. (**Fig.15**) - 1♂ **65:** Çatak: Amata vadisi, 1600m. 15 06 2002, M.Kemal & A.Koçak leg. It feeds on *Vicia* flowers by day.

Noctuelia superba 1♀ **06:** Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. *Butterflies sip nectar of Vicia cracca.* - 2♂ **12:** Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings.* - 1♂ **13:** Tatvan: Nemrut Krateri, Büyükgöl, 2300m, 16 06 2007, M.Kemal, A.Koçak leg. (**Fig.16**) - 1♂ **38:** Melikgazi: Erciyes, Hisarcık, 1820m, 31 05 2007, M.Kemal & A.Koçak leg. - 1♂ **46:** Göksun: Keklikoluk, 1700m, 06 06 2006, M.Kemal & A.Koçak leg. *mountain steppe.*

Nomophila noctuella 1♂ **06:** Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. - 4♂♀ **06:** Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 2♂ **06:** Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg. - 1♂ **12:** Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings.* - 1♂ **13:** Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 09 06 2007, H.Özkoç, L.Kayci, M.Kemal, A.Koçak leg. - 1♀ **13:** Tatvan: Nemrut Krateri, Ilıkgöl üstü, 2300m, 09 06 2007, H.Özkoç, L.Kayci, M.Kemal, A.Koçak leg. - 1♂ **21:** Silvan: Silvan 10km E, 0830m, 07 04 2005, M.Kemal leg. - 3♂ **30:** Şemdinli: Haruna geçidi, 1900m. 19 05 2003, M.Kemal leg. *Its habitat tragacanthic mountain steppe has been greatly degraded and overgrazed.* - 1♂ **31:** 0440m, 21 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation.* - 1♂ **44:** Akçadağ: Sultansuyu Çiftliği, 0870m, 27 05 2007, M.Kemal leg. - 2♂ **65:** Gevaş: Göründü- Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal leg. - 1♂ **65:** Gürpınar: Gölet, 2050m. 09 06 2002, A.Koçak, H.Özkoç & L.Kayci leg - 2♂ **65:** Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ **65:** Gürpınar: Çatakdişi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg. - 1♂ **65:** Van: Zeve, Kampüs, 1700m. 28 04 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Van: Kurubaş, 1900m. 12 05 2001, M.Kemal & A.Koçak leg. - 3♂♀ **65:** Van: Zeve, Kampüs, 1700m. 21 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Van: Kurubaş geçidi N, 2100m. 10 06 2003, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. *captured flying by day.* - 3♂ **65:** Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Çatak 3km NNE, 1500m, 23 05 2001. A.Koçak & M.Kemal leg. - 1♂ **65:** Çatak: Yukarı Narlıca 15km E., 2650m. 27 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65:** Çatak: Dalbastı 3km S, 1300m. 17 05 2003, M.Kemal & A. Koçak leg. *Hilly place covered by mixed forest (Quercus, Crataegus, Prunus, Acer, Celtis),*

with malacophyllous plants and grasses. - 1♂ **65**: Çatak: Çatak 35km N, Darboğaz 2100m, 07 06 2004. A.Koçak & M.Kemal leg. - **65**: Çatak: Dalbastı 3km S, 1300m, 30 04 2005, A.Koçak & M.Kemal obs.

Panstegia limbopunctalis 1♀ **58**: Gürün: Höyükliuyurt, 1700m 27 06 2004, M.Kemal & A.Koçak leg. - **65**: Van Kurubaş 2250m 4 7 2009 photo M Kemal (**Fig. 7**)

Paracorsia repandalis 1♀ **65**: Çatak: Çatak 3km NNE, 1500m, 09 06 2001. A.Koçak & M.Kemal leg. - 2♂ 1♀ **65**: Çatak: Çatak 35km N, Darboğaz 2100m, 07 06 2004. A.Koçak & M.Kemal leg.

Phlyctaenomorpha sinuosalis 22♂♀ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 22♂♀ **65**: Çatak: Çatak 2km NNE, 1650m, 09 06 2001. A.Koçak & M.Kemal leg. (**Fig.17**) - 2♂ **65**: Çatak: Şehzade Pınarı, 1350m. 13 07 2001, M.Kemal & A.Koçak leg.

Psammotis pulveralis 1♀ **65**: Çatak: Amata vadisi, 1600m, 13 06 2002. A.Koçak & M.Kemal leg.

Pyrasia gutturalis 3♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. (**Fig.18**) - 1♀ **65**: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65**: Çatak: Çatak 2km NNE, 1650m, 09 06 2001. A.Koçak & M.Kemal leg. - 1♂ **65**: Çatak: Narlı, Konalga meşeliği, 1800m 26 06 2001. A.Koçak & M.Kemal leg.

Pyrausta aurata 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 1♂ **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1250m 24 04 1999, A.Koçak leg. - 1♂ **65**: Çatak: Çatak 6km S., 1540m. 24 05 2001, M.Kemal & A.Koçak leg.

Pyrausta despicata **13**: Tatvan Tokaçlı S 1750m 6 7 2006 photo M Kemal (**Fig.4**) - 1♂ **65**: Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg.

Pyrausta inciae 1♂ **65**: Gürpınar: Yukarı Eğimli, 2230m, 13 08 2006, M.Kemal & A.Koçak leg.

Pyrausta obfuscata **13**: Tatvan, Reşadiye 1670m 06 07 2006 photo M Kemal (**Fig. 3**)

Pyrausta sanguinalis 5♂ **65**: Çatak: Çatak 3km NNE, 1500m, 23 05 2001. A.Koçak & M.Kemal leg. - 4♂ 2♀ **65**: Çatak: Çatak 2km NNE, 1650m, 09 06 2001. A.Koçak & M.Kemal leg. - 2♂ **65**: Çatak: Narlı, Konalga meşeliği, 1800m, 26 06 2001. A.Koçak & M.Kemal leg. - 12♂ 3♀ **65**: Çatak: Çatak 35km N, Darboğaz 2100m, 07 06 2004. A.Koçak & M.Kemal leg.

Sitochroa palealis 1♂ **49**: Muş: Buğlan geçidi, 1695m, 26 06 2004, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak leg.

Sitochroa verticalis 1♂ **06**: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 1♂ **65**: Çatak: Karabel Pass, 2985m, 14 07 2001. A.Koçak & M.Kemal leg. - 1♀ **65**: Çatak: Amata vadisi, 1600m, 13 06 2002. A.Koçak & M.Kemal leg.

Synaphe bombycalis 1♂ **58**: Gürün: Höyükliuyurt, 1700m 27 06 2004, M.Kemal & A.Koçak leg. - 1♂ **65**: Van: Erek Dağı, Kurubaş 7km E, 2100m. 08 06 2002, M.Kemal & A.Koçak leg.

Synaphe consecratalis 1♀ **46**: Göksun: Karaömer E, 1375m, 01 06 2007, M.Kemal & A.Koçak leg.

Synaphe isthmicalis ssp. 1♂ **63**: Ceylanpınar (Işıklar) 8 5 2005 K.Akın leg. (**Fig.19**)

Synaphe moldavica 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg. - 3♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 2♂ **40**: Kaman: Kırşehir-Kaman kavşağı, 1190m, 07 06 2006, M.Kemal & A.Koçak leg. - **44**: Akçadağ: Sultansuyu Çiftliği, 0870m, 27 05 2007, M.Kemal obs. - 1♂ **46**: Göksun: B.Çamurlu- Yoğunluk kavşağı, 1570m, 01 06 2007, M.Kemal & A.Koçak leg. - 1♂ **65**: Van Pr. Erek Dağı Sarnaç 2100m 21 6 2007 M Kemal leg. (**Fig.5,20**)

Tegostoma lepidalis 1♂ **65**: Gevaş 5km S, 1815m 12 7 2007 H Özkol & L Kayci leg. (**Fig.21**)

Titanio normalis 1♂ **65**: Van: Zeve, Kampüs, 1700m. 17 04 2001, M.Kemal & A.Koçak leg. - ***Titanio normalis ancylensis*** 1♀ **06**: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg.

Trepteryx pertusalis 2♂ **01**: Tufanbeyli: Gezbeli E, Hanyeri W, 1885m, 06 06 2006, M.Kemal & A.Koçak leg. (**Fig.6**) - **06**: Ayaş: Ayaş Dağları, Mülk, 1060m, 30 05 2007, M.Kemal obs. - 5♂♀ **06**: Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak leg. - 4♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 3♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg. - 2♂ **06**: Yenimahalle: Karyağdı Dağı, Lezgi, 1200m. 19 05 1999, A.Koçak & M.Kemal leg. - 6♂ **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 1♂ **13**: Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 09 06 2007, M.Kemal, A.Koçak leg. (**Fig.22**) - 2♂ **46**: Göksun: Tekir N., Kurucaova, 1350m, 06 06 2006, M.Kemal & A.Koçak leg. - 2♀ **46**: Göksun: Kanlıkavak E, 1420m, 01 06 2007, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Atlıhan 1300m, 20 05 2005 M.Kemal leg.

Trigonuncus euergestalis 1♂ **65**: Çatak: Narlı, Konalga meşeliği, 1800m, 26 06 2001. A.Koçak & M.Kemal leg.

Udea ferrugalis 3♂ **65**: Van: Zeve, Kampüs, 1750m. 10 10 2001, M.Kemal & A.Koçak leg.

Xanthocrambus saxonellus 1 ex. **65**: Çatak Ardış Vadisi, 2100m, 24 6 2007 M Kemal & A Koçak leg. (**Fig.23**)

Zygaenidae

Jordanita chloros 1♂ **06**: Yenimahalle: Memlik, 1300m 18 07 1998, A.Koçak & M.Kemal leg.

Zygaena carniolica 1♂ 1♀ **06**: Yenimahalle: Memlik, Pinetum-Astragalo Brometea comm. 1400m 23 07 1998, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Memlik, 1300m 15 08 1998, A.Koçak & M.Kemal leg. - 7♂♀ **06**: Yenimahalle: Memlik, 1300m 18 07 1998, A.Koçak & M.Kemal leg. - 1♂ **13**: Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak leg. - 1♂ **13**: Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic degraded mountain steppe*.

Zygaena cuvieri 1♀ **13**: Tatvan: Reşadiye W, 1670m, 27 06 2006, M.Kemal & A.Koçak leg.

Zygaena diaphana 1♂ **13**: Tatvan: Tatvan 30km E, 1800m. 25 06 2001, A.Koçak & M.Kemal leg. - 2♀ **13**: Tatvan: Tatvan 45km E, 1870m. 25 06 2001, A.Koçak & M.Kemal leg.

Zygaena dorycnii 1♂ **13**: Tatvan: Tatvan 57km E, 1920m. 25 06 2001, A.Koçak & M.Kemal leg.

Zygaena filipendulae 1♂ 1♀ **06**: Kızılcahamam: Işık Dağı, 1600m 25 07 1998, M.Kemal leg. - 3♂ **06**: Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg. - 4♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 3♂ 1♀ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 7♂♀ **13**: Bitlis: Bitlis 10km SW, 1400m. 12 06 2002, M.Kemal & A.Koçak leg.

Zygaena loti 1♂ **06**: Ayaş: Ayaş Dağları, Mülk, 1060m, 30 05 2007, M.Kemal & A.Koçak leg. - 2♂ **06**: Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. *Butterflies sip nectar of Vicia cracca*. - 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg. - 3♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1150m. 16 6 2000, A.Koçak & M.Kemal leg. - 1♀ **06**: Yenimahalle: Memlik, Pinetum-Astragalo Brometea comm. 1400m 23 07 1998, A.Koçak & M.Kemal leg. - 1♀ **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 11♂♀ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 3♂ **06**: Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg. - 1♀ **46**: Göksun: Kanlıkavak E, 1420m, 01 06 2007, M.Kemal & A.Koçak leg. - 2♂ **49**: Muş: Buğlan geçidi, 1695m, 26 06 2004, M.Kemal & A.Koçak leg. - **65**: Çatak: Dalbastı 3km S, 1300m. 30 05 2003, M.Kemal & A.Koçak obs. *Moth feeds on Onobrychis armena*.

Zygaena minos. 6♂♀ **06:** Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 1♂ 1♀ **06:** Yenimahalle: Memlik, 1300m 18 07 1998, A.Koçak & M.Kemal leg.

Zygaena olivieri ganymedes 1♀ **06:** Yenimahalle: Lezgi, 1050m 18 07 1998, M.Kemal leg. - 2♂ **06:** Yenimahalle: Lezgi, 1200m 05 07 1998, S.Seven leg. - 2♂ 2♀ **06:** Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 1♂ **06:** Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 23 07 1998, A.Koçak & M.Kemal leg.

Zygaena punctum 1♀ **06:** Yenimahalle: Lezgi, 1200m 05 07 1998, S.Seven leg.

Zygaena purpuralis 4♂ **01:** Tufanbeyli: Gezbeli E, Hanyeri W, 1885m, 06 06 2006, M.Kemal & A.Koçak leg. - 2♂ **06:** Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. *Butterflies sip nectar of Vicia cracca and Carduus.* - 6♂♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg. - 2♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 1♂ **33:** Tarsus: Tarsus 40km N, 0600m, 12 06 2005, A.Koçak, M.Doğruöz & M.Kemal leg. - 1♀ **46:** Göksun: Keklikoluk, 1700m, 06 06 2006, M.Kemal & A.Koçak leg. *mountain steppe.* - 1♂ **46:** Göksun: Karaömer E, 1375m, 01 06 2007, M.Kemal & A.Koçak leg.

Zygaena sedi 2♂ **49:** Muş: Buğlan geçidi, 1695m, 16 07 2004, M.Kemal & A.Koçak leg. *Openings of the remnant Quercus forest.*

Zygaena tamara placida 20♂♀ **65:** Gürpınar: Zernekar barajı, 2000m. 31 07 2001, A.Koçak leg. - 1♀ **65:** Gürpınar: Gölardı, 2350m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community.*

Appendix

Provinces of Turkey (studied 17 provinces are in bold)

01 Adana	18 Çankırı	35 İzmir	52 Ordu	69 Bayburt
02 Adıyaman	19 Çorum	36 Kars	53 Rize	70 Karaman
03 Afyonkarahisar	20 Denizli	37 Kastamonu	54 Sakarya	71 Kırıkkale
04 Ağrı	21 Diyarbakır	38 Kayseri	55 Samsun	72 Batman
05 Amasya	22 Edirne	39 Kırklareli	56 Siirt	73 Şırnak
06 Ankara	23 Elazığ	40 Kırşehir	57 Sinop	74 Bartın
07 Antalya	24 Erzincan	41 Kocaeli	58 Sivas	75 Ardahan
08 Artvin	25 Erzurum	42 Konya	59 Tekirdağ	76 Iğdır
09 Aydın	26 Eskişehir	43 Kütahya	60 Tokat	77 Yalova
10 Balıkesir	27 Gaziantep	44 Malatya	61 Trabzon	78 Karabük
11 Bilecik	28 Giresun	45 Manisa	62 Tunceli	79 Kilis
12 Bingöl	29 Gümüşhane	46 Kahramanmaraş	63 Şanlıurfa	80 Osmaniye
13 Bitlis	30 Hakkari	47 Mardin	64 Uşak	81 Düzce
14 Bolu	31 Hatay	48 Muğla	65 Van	
15 Burdur	32 Isparta	49 Muş	66 Yozgat	
16 Bursa	33 İçel	50 Nevşehir	67 Zonguldak	
17 Çanakkale	34 İstanbul	51 Niğde	68 Aksaray	



Fig. 8- *Aeglotis argentalis* Turkey Van Pr, Çatak Dalbastı 3km S 1300m, 19 08 2003, photo M Kemal (Cesa)



Fig. 9 - *Ancylolema palpella* (male) Turkey Van Pr., Çatak 3km NNE 1500m, 5 10 2001 photo M.Kemal (Cesa)



Fig.10 - *Ephelis cruentalis* Turkey Siirt Pr. Kurtalan Ağaçlıpınar 1000m 11 6 2002 photo M Kemal (Cesa)



Fig.11 - *Evergestis umbrosalis* (male) Turkey Bitlis Pr., Tatvan Nemrut Büyüköl, 2300m, 9 6 2007 photo (Cesa)



Fig.12 - *Hypsopygia costalis* Turkey Van Pr. Çatak 3km NNE 1500m 5 10 2001 photo M Kemal (Cesa)



Fig. 13 - *Metaxmeste sericatalis* (upperside) Turkey Bitlis Pr. Tatvan Nemrut Ilıkgöl, 2300m 9 6 2007 M Kemal & A Koçak (Cesa)



Fig. 14 - *Metaxmeste sericatalis* (underside) Turkey Bitlis Pr. Tatvan Nemrut Ilıkgöl, 2300m 9 6 2007 M Kemal & A Koçak (Cesa)

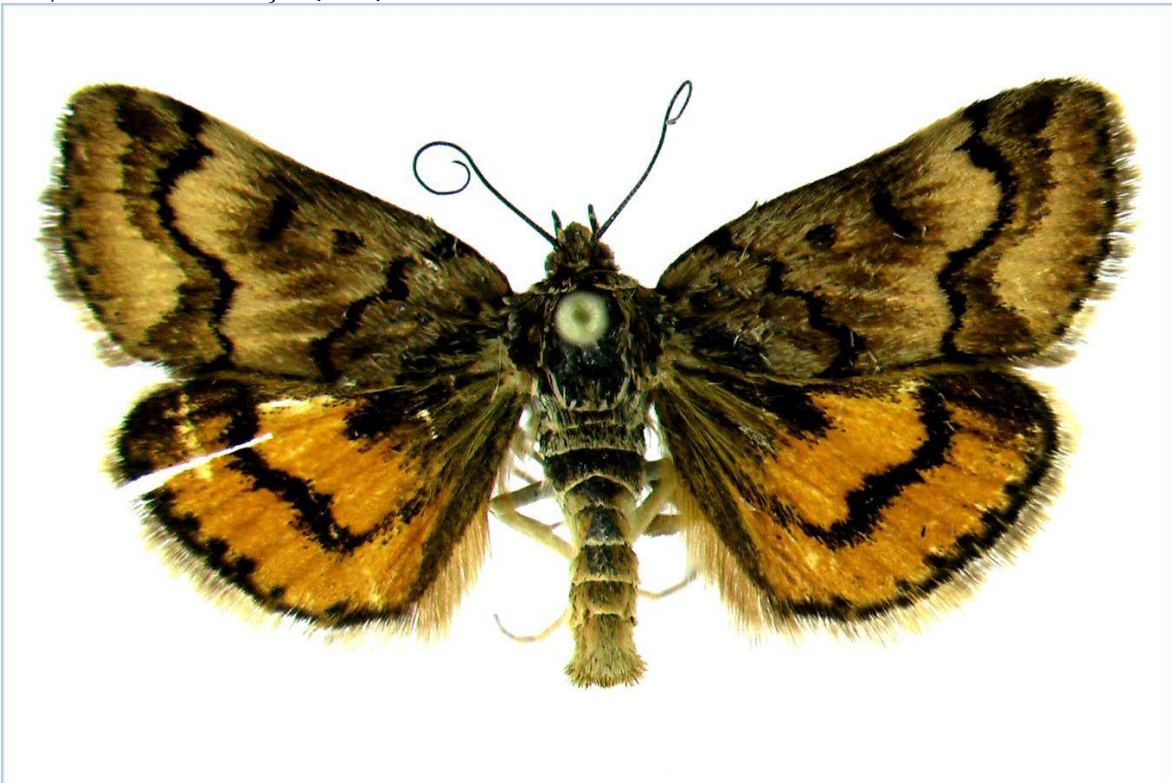


Fig. 15 - *Noctuelia vespertalis* (upperside of male) Turkey Bitlis Pr., Tatvan 2km SE 1700m, 15 6 2007 M Kemal & A Koçak (Cesa)



Fig. 16 - *Noctuelia superba* Turkey Bitlis Pr., Tatvan Nemrut Büyükgöl, 2300m, 16 6 2007 M Kemal & A Koçak (Cesa)



Fig. 17 - *Phlyctaenomorpha sinuosalis* Turkey Van Pr., Çatak 3km NNE 1500m, 9 6 2001 photo M Kemal (Cesa)



Fig.18 -*Pyrasia gutturalis* Turkey Van Pr., Çatak Kirazlı, 3km NNE, 1500m, 23 05 2001 photo M Kemal (Cesa)



Fig. 19 - *Synaphe isthmicalis* ssp Turkey Urfa Pr., Ceylanpınar (Işıklar) 8 5 2005 K.Akın leg., photo M Kemal (Cesa)



Fig.20 - *Synaphe moldavica* Turkey Van Pr. Erek Dağı Sarnaç 2100m 21 6 2007 M Kemal leg. PV (Cesa)



Fig. 21- *Tegostoma lepidalis* (male) Turkey Van Pr., Gevaş 5km S 1815m 12 7 2007 H Özkol & L Kayci leg., photo M Kemal (Cesa)



Fig.22 - *Trepteryx pertusalis* Turkey Bitlis Pr., Tatvan, Nemrut Büyükgöl, 2300m, 16 6 2007 M Kemal & A Koçak leg. (Cesa)



Fig. 23 - *Xanthocrambus saxonellus* Turkey Van Pr. Çatak Ardeş Vadisi, 2100m, 24 6 2007 M Kemal & A Koçak leg. (Cesa)

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Correspondences should be addressed to: Prof. Dr. Ahmet Ömer Koçak, c/o Yüzüncü Yıl University, Fen Fakültesi, Biyoloji Bölümü, Kampus, Van / Turkey. - e-mail: cesa_tr@yahoo.com.tr

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